

Features

- 6.3*12.5mm*1 Segment
- Bar Graph
- White Face, White Segment
- Easy assembly
- RoHS Compliant, Pb Free

Applications

- Consumer Electronics
- Industrial Equipment

Description

The INBD-T1125.XNW series is 6.3*12.5mm*1 Segment display. It is a Through Hole type LED display which can be used in various applications.

Internal Circuit Diagram

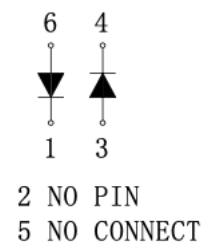


Figure 1. INBD-T1125.XNW Internal Circuit Diagram

Package Dimensions & All Light On Segments Feature

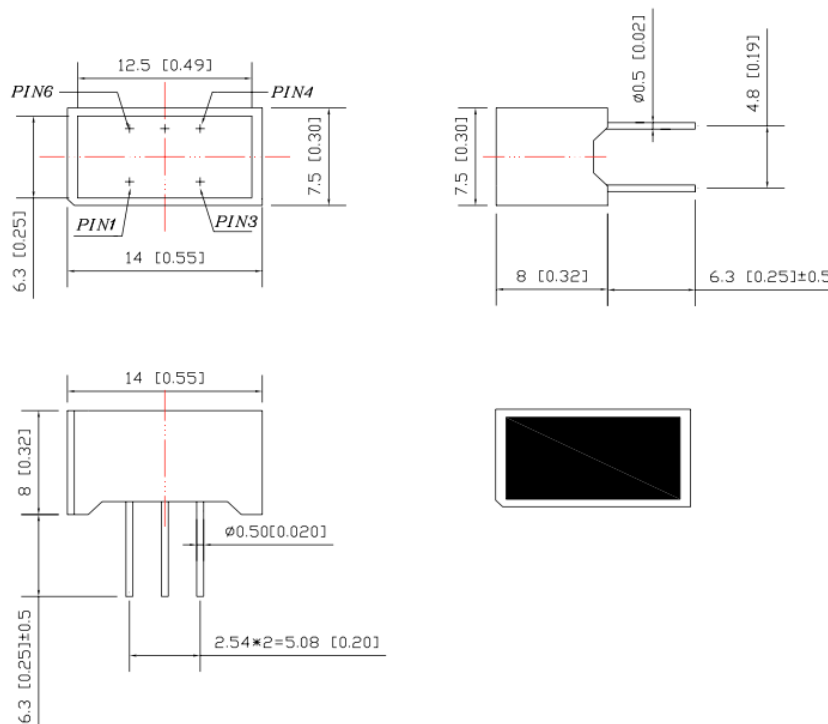


Figure 2. INBD-T1125.XNW Package Dimensions

Notes

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.

Absolute Maximum Rating at 25°C (Note 1)

Product (Per Segment)	Emission Color	Pd (mW)	IF (mA)	IFP* (mA)	VR (V)	T _{OP} (°C)	T _{ST} (°C)
INBD-T1125.YGNW	Yellow Green	48	20	100	5	-40°C~+80°C	-40°C~+85°C
INBD-T1125.ANW	Amber	48	20	100	5	-40°C~+80°C	-40°C~+85°C
INBD-T1125.RNW	Red	48	20	100	5	-40°C~+80°C	-40°C~+85°C
INBD-T1125.BNW	Blue	35	10	50	5	-40°C~+80°C	-40°C~+85°C
INBD-T1125.WNW	White	35	10	50	5	-40°C~+80°C	-40°C~+85°C

Notes

1. Condition for IFP is pulse of 1/10 duty and 0.1msec width

Electrical Characteristics $T_A = 25^\circ\text{C}$ (Note)

Product (Per Segment)	Emission Color	$V_F(\text{V})@10\text{mA}$		$\lambda(\text{nm})@20\text{mA}$		$I_V^*(\text{mcd})@10\text{mA}$			$I_R(\mu\text{A})@V_R=5\text{V}$	$I_{V-M}@I_F=10\text{mA}$
		min	typ.	λ_D	λ_P	min	typ.	max	max	max
INBD-T1125.YGNW	Yellow Green	-	1.7	572	575	5.5	11	-	50	2:1
INBD-T1125.ANW	Amber	-	1.9	605	610	13	26	-	50	2:1
INBD-T1125.RNW	Red	-	1.8	624	632	21	42	-	50	2:1
INBD-T1125.BNW	Blue	-	2.9	470	468	18	36	-	50	2:1
INBD-T1125.WNW	White	-	2.9	X: 0.3 Y: 0.31		70	135	-	50	2:1

Notes

1. Performance guaranteed only under conditions listed in above tables.
2. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
3. The dominant wavelength (λ_D) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
4. Luminous Intensity is an average value which is measured one 7-segment. Tolerance of Luminous Intensity: $\pm 10\%$.
5. Excess driving current and / or operating temperature higher than recommended conditions may result in severe light degradation or premature failure.
6. The chromaticity coordinates (x, y) is derived from the 1931 CIE chromaticity diagram.

ESD Precaution

ATTENTION: Electrostatic Discharge (ESD) protection

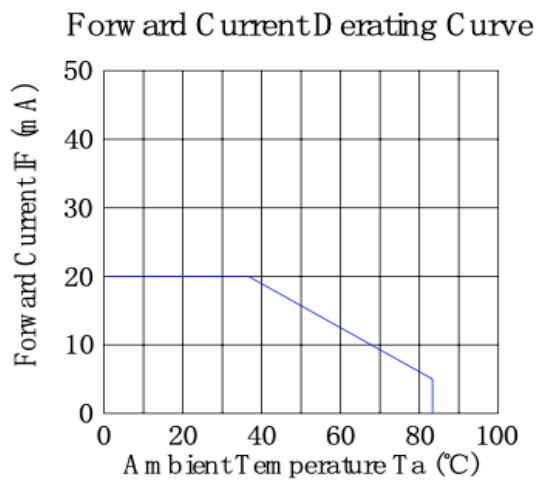
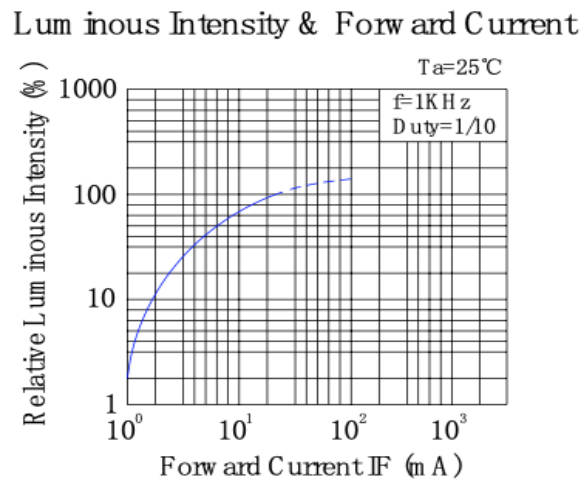
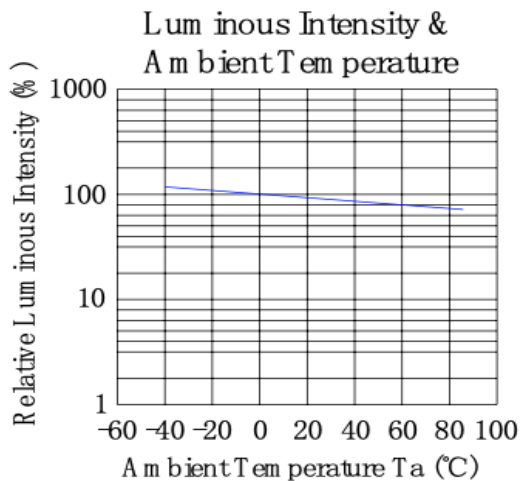
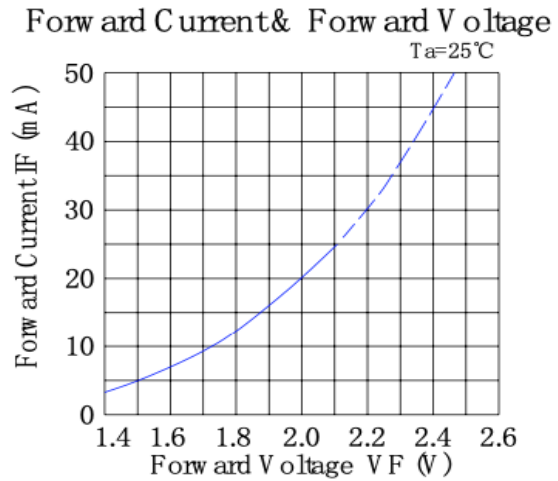
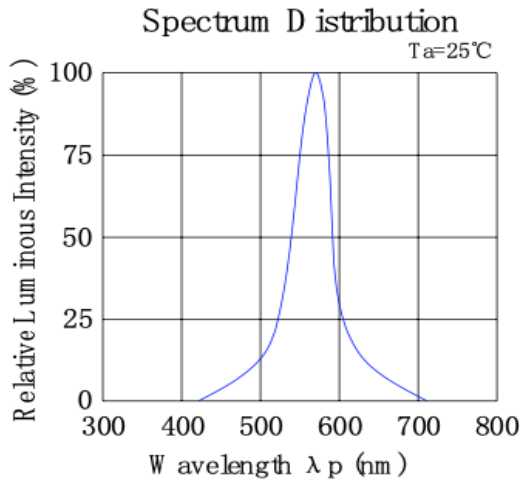


The symbol above denotes that ESD precaution is needed. ESD protection for GaP and AlGaAs based chips is necessary even though they are relatively safe in the presence of low static-electric discharge. Parts built with AlInGaP, GaN, or/and InGaN based chips are STATIC SENSITIVE devices. ESD precaution must be taken during design and assembly. If manual work or processing is needed, please ensure the device is adequately protected from ESD during the process.

Please be advised that normal static precautions should be taken in the handling and assembly of this device to prevent damage or degradation which may be induced by electrostatic discharge (ESD).

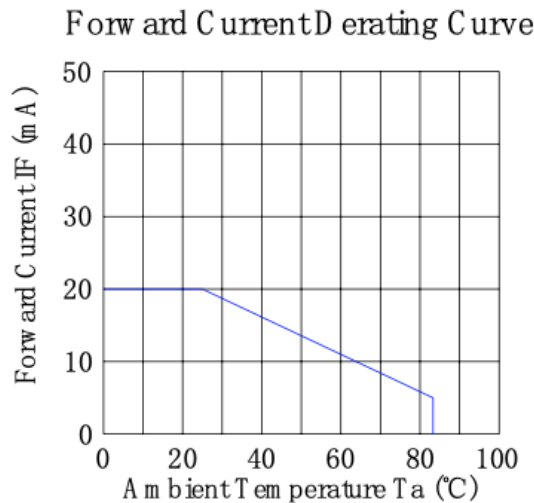
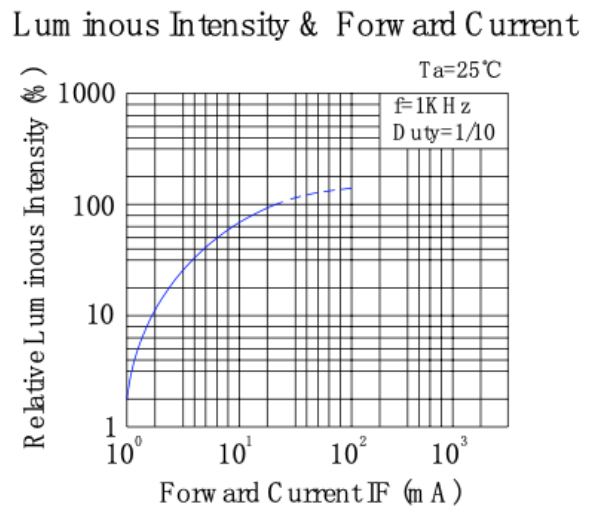
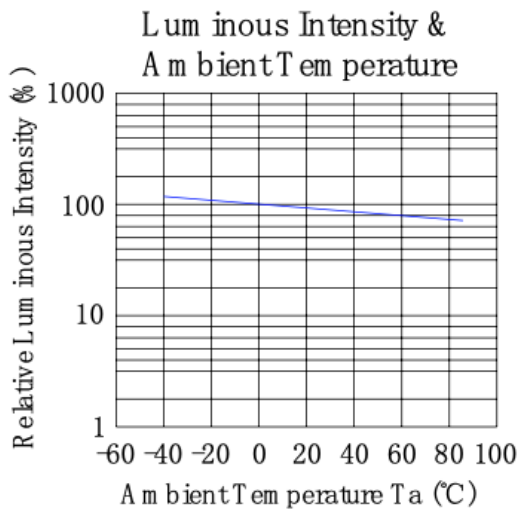
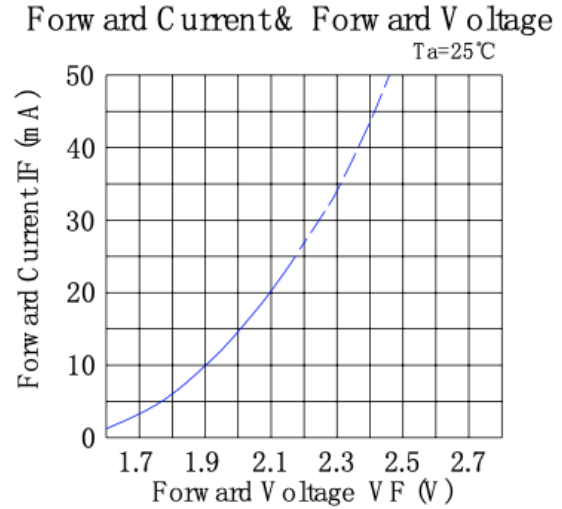
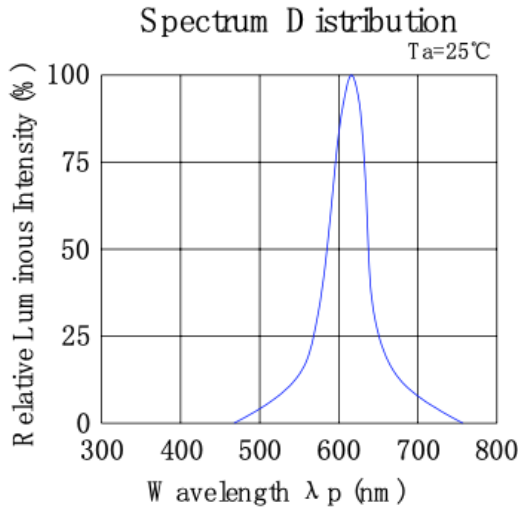
Characteristic Curves-Per Die Yellow Green

(Ta = 25°C Unless Otherwise Noted)



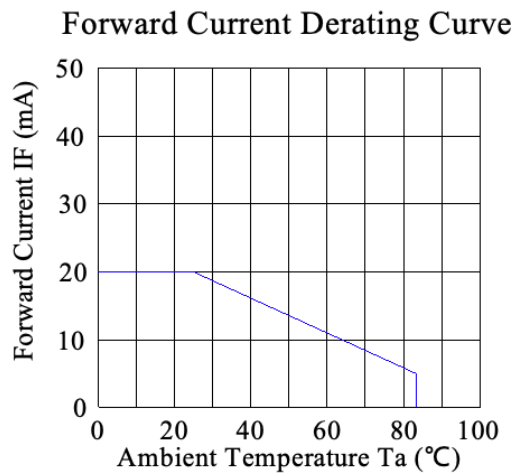
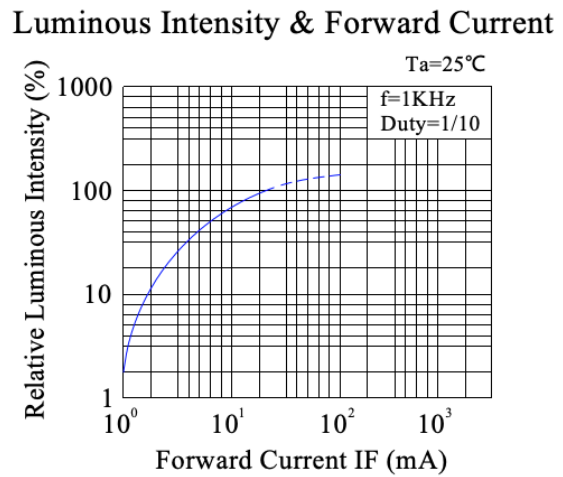
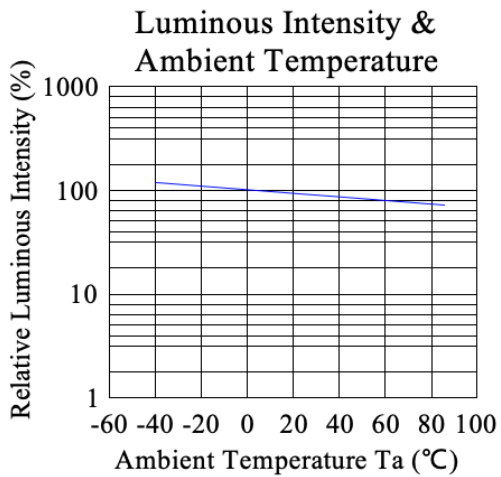
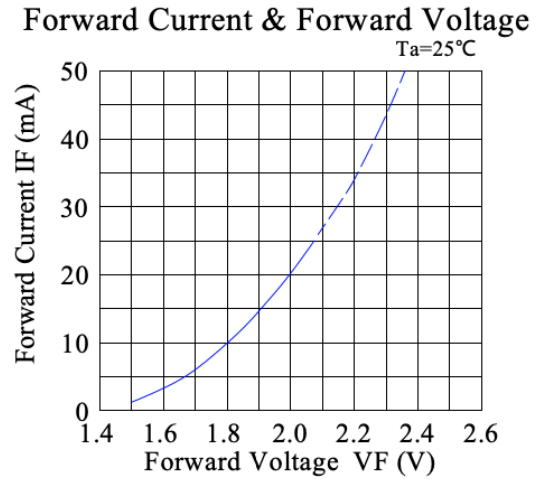
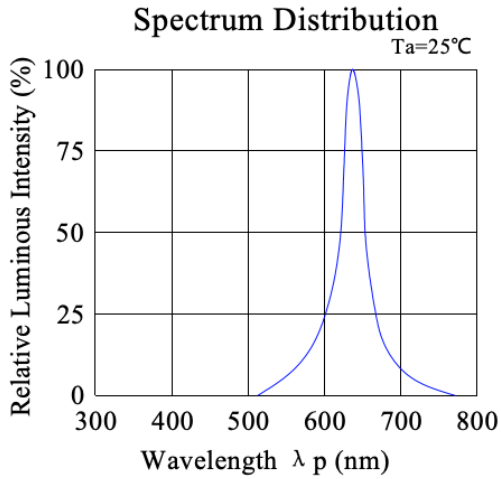
Characteristic Curves-Per Die Amber

(Ta = 25°C Unless Otherwise Noted)



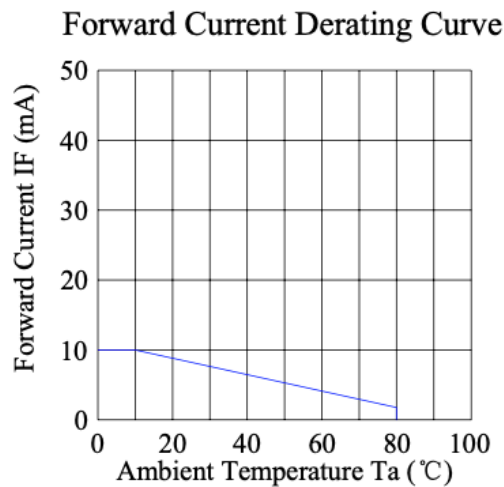
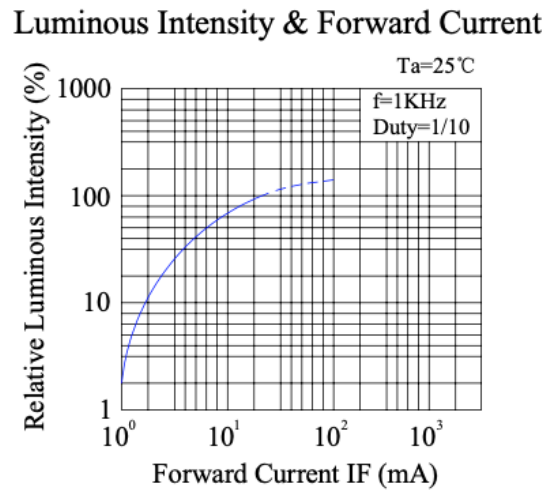
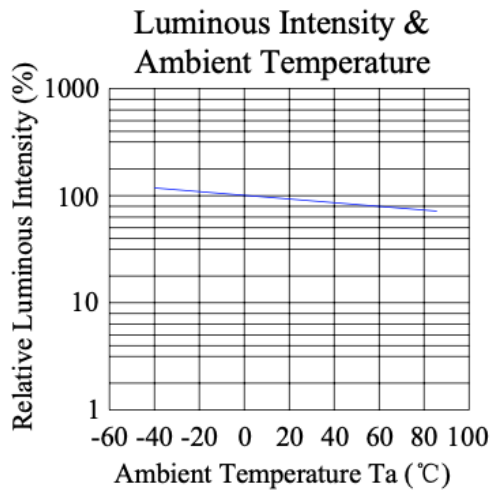
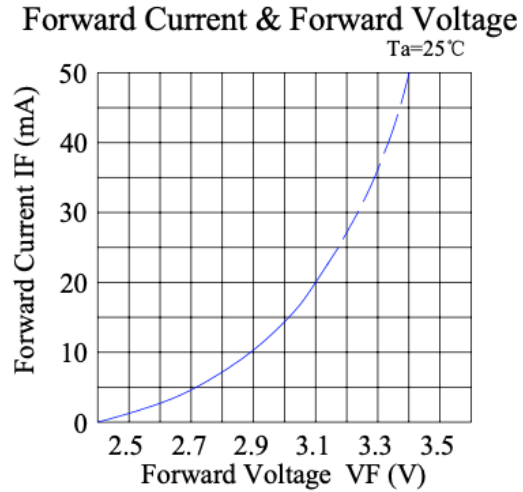
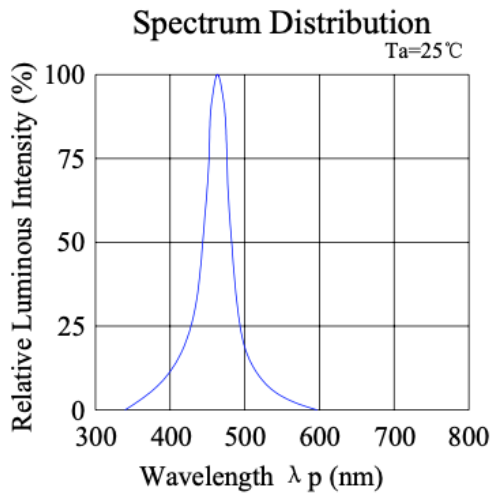
Characteristic Curves-Per Die Red

(Ta = 25°C Unless Otherwise Noted)



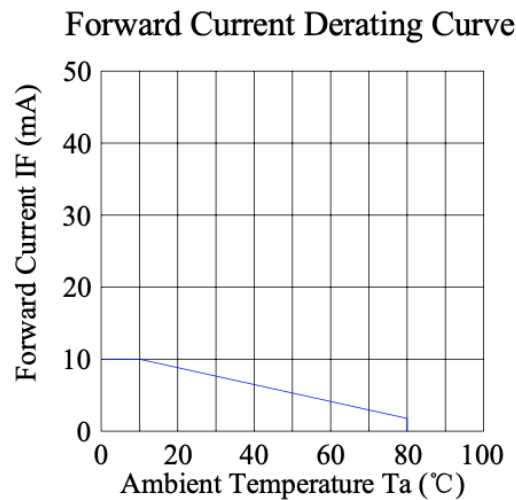
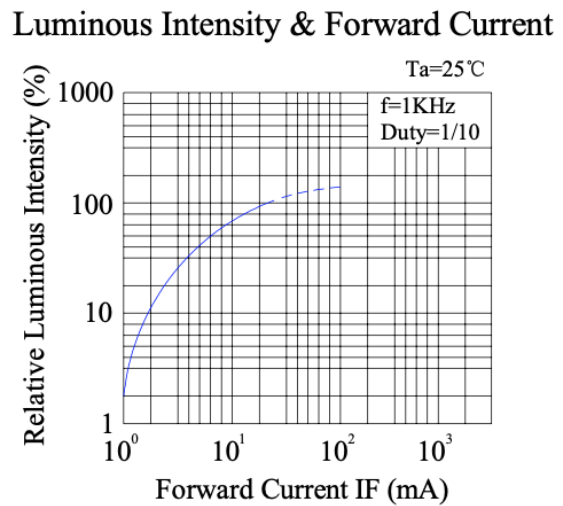
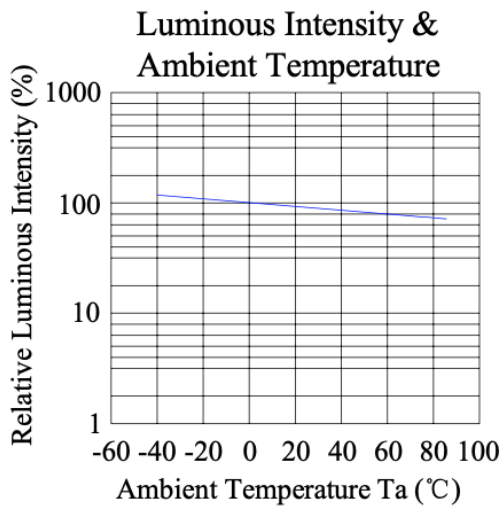
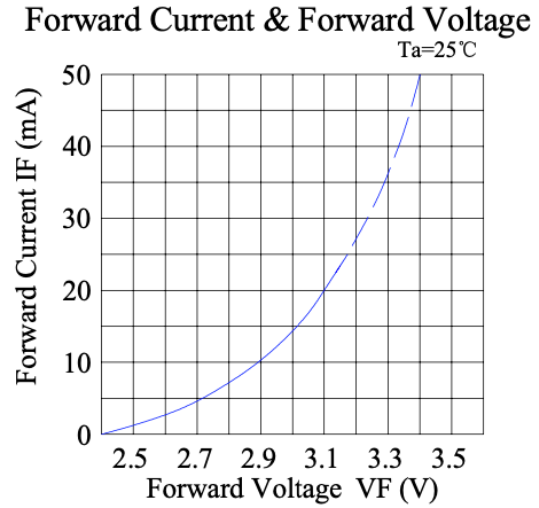
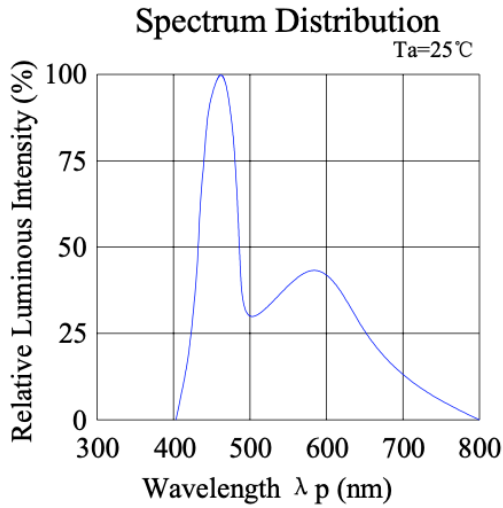
Characteristic Curves-Per Die Blue

(Ta = 25°C Unless Otherwise Noted)



Characteristic Curves-Per Die White

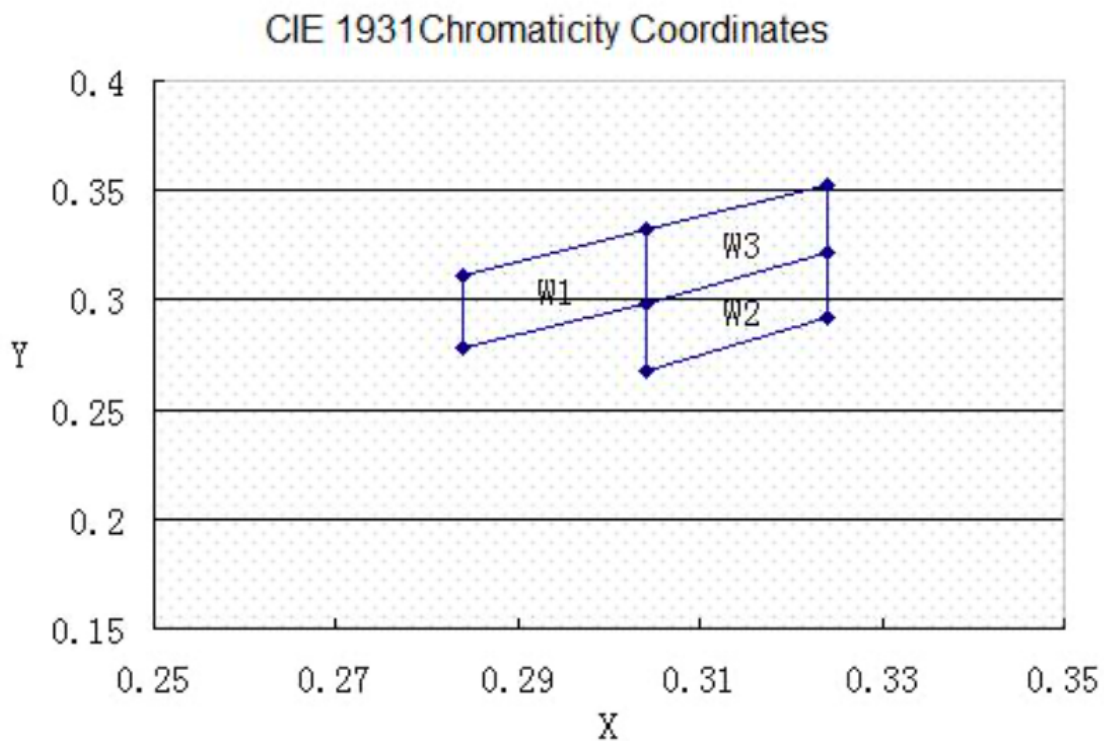
(Ta = 25°C Unless Otherwise Noted)



Chromaticity Bin (for White only)
Color Bin at IF = 10mA

Bin Code	CIE 1931 Chromaticity Coordinates					
	x	y	x	y	x	y
W1	x	0.284	0.284	0.304	0.304	
	y	0.278	0.311	0.332	0.298	
W2	x	0.304	0.304	0.324	0.324	
	y	0.268	0.298	0.322	0.292	
W3	x	0.304	0.304	0.324	0.324	
	y	0.298	0.332	0.352	0.322	

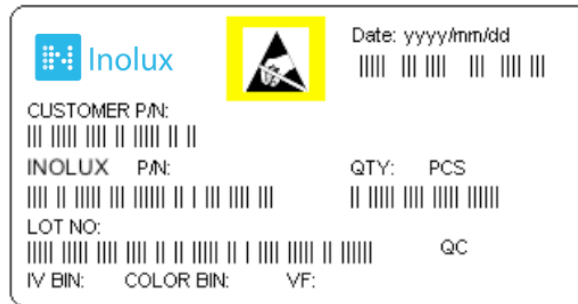
Tolerance on each Hue (x, y) bin is +/- 0.01.



Ordering Information

Product	Emission Color	I*V(mcd) @10mA	VF(V) @10mA	Polarity	Face Color	Orderable Part Number
INBD-T1125.YGNW	Yellow Green	11	1.7	No Common	White	INBD-T1125.YGNW
INBD-T1125.ANW	Amber	26	1.9	No Common	White	INBD-T1125.ANW
INBD-T1125.RNW	Red	42	1.8	No Common	White	INBD-T1125.RNW
INBD-T1125.BNW	Blue	36	2.9	No Common	White	INBD-T1125.BNW
INBD-T1125.WNW	White	135	2.9	No Common	White	INBD-T1125.WNW

Label Specifications

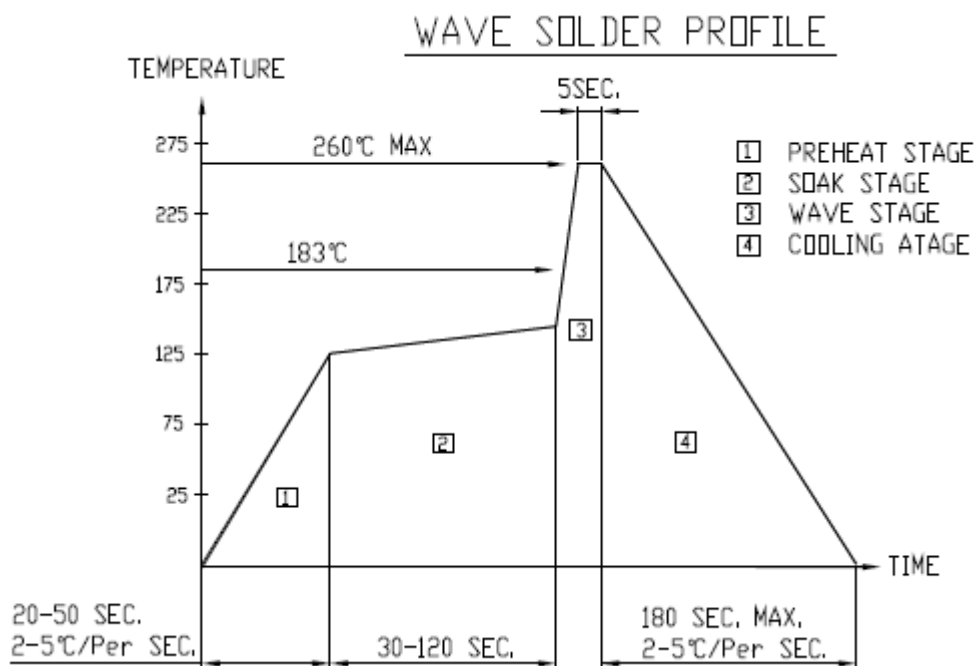


Inolux P/N:

I	N	B	D	-	T	1	1	2	5	.	X	N	W	-	X	X	X	X
Inolux		Display Type			Display Type	Matrix		Dimension			Color	Polarity	Face Color		Customized Stamp-off			
		BD = Bar Graph Display			T: Through Hole Type	11 = 1 x 1		25 = 0.25" Display Height			YG: 572nm A: 605nm R: 624nm B: 470 nm W: X: 0.3 Y: 0.31	N = No Common	W = White					

Lot No.:

Z	2	0	1	7	01	24	001
Internal Tracker	Year (2017, 2018,)				Month	Date	Serial

Reflow Soldering

Soldering Iron

Basic Spec is ≤ 4 sec. when 260°C (+10°C → -1 second). Power dissipation of Iron should be less than 15W. Surface temperature should be under 230°C

Rework

Rework should be completed within 4 second under 245°C

Revision History

Changes since last revision	Page	Version No.	Revision Date
Initial Release		1.0	01-28-2021

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